

MATERIAL SAFETY DATA SHEET

Date Revised: July 2000

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. T. Christy Enterprises, Inc. urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on this sheet.

SECTION I

MANUFACTURER'S NAME:

T. Christy Enterprises, Inc.

ADDRESS:

655 East Ball Road, Anaheim, CA 92805-5910
(714) 507-3300 FAX: (714)507-3310

Transportation Emergencies:**INFOTRAC: (800) 535-5053****Medical Emergencies: (800) 777-6476****CHEMICAL NAME and FAMILY**

PVC Fence Cement

Mixture of PVC Resin and Organic Solvents

TRADE NAME: White Vinyl Adhesive - 672-6 Neg**FORMULA:** Proprietary

SECTION II - HAZARDOUS INGREDIENTS

None of the ingredients below are listed as
carcinogens by IARC, NTP, OSHA or Ac

	Cas#	Approx%	ACGIH-TLV	ACGIH-STEL	OSHA-FEL	OSHA-STEL	LD50	LC50	DUPONT-AEL	DUPONT-STEL
Polyvinyl Chloride Resin (PVC)	NON/HAZ		N/P		N/P		N/P			
Tetrahydrofuran (THF)	109-99-9	60-75	300 HM	250 HM	200 PPM	250 PPM	Oral: 2800 mg/kg (rat)	Inhalation: 3 hrs 21,000 PPM (rat)	25 HM	75 HM
*Methyl Ethyl Ketone	78-93-3	5-20	300 HM	300 HM	200 PPM	300 PPM	Oral: 3.95 g/kg (rat) Dermal: 8.10 mg/kg (rabbit)	Inhalation: 4 hrs 4000 PPM (rat)		
Cyclohexanone	108-91-1	5-10	25 HM Skin		25 PPM Skin	300 HM		Inhalation: LC50 (rat)		

(A) Dupont's Acceptable Exposure Limit (AEL) guidelines for a 8 hour and 12 hour TWA. (B) Dupont's recommended STEL for 15 minute TWA. **Information found in a report from the National Toxicology Program (NTP) on an inhalation study in rats and mice suggests that Tetrahydrofuran (THF) can cause tumors in animals. In the study the rats and mice were exposed to THF vapor levels up to 1800 PPM for two years (their lifetime), 5 hours/day, 5 days/week. Test results showed evidence of liver tumors in female mice and kidney tumors in male rats. No evidence of tumors was seen in female rats and male mice. There is no data linking Tetrahydrofuran exposure with cancer in humans.

**SARA Title III Section 313 Supplier Notification; This product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40CFR372. This information must be included in all MSDS'S that are copied and distributed for this material.

BULK SHIPPING INFORMATION/ CONTAINERS LARGER THAN ONE LITER

DOT Shipping Name: Cement Flammable Liquid
DOT Hazard Class: Flammable Liquid
Identification Number: UN/NA 1133
Packaging Group: II
Label Required: Flammable Liquid

SHIPPING INFORMATION FOR CONTAINERS LESS THAN ONE LITER

DOT Shipping Name: Consumer Commodity
DOT Hazard Class: ORM-D

SPECIAL HAZARD DESIGNATIONS

	HMIS	NFPA	HAZARD RATING
HEALTH:	2	2	0-MINIMAL
FLAMMABILITY:	3	3	1-SLIGHT
REACTIVITY:	0	1	2-MODERATE
PROTECTIVE:			3-SERIOUS
EQUIPMENT:	H		4-SEVERE

SECTION III - PHYSICAL DATA

APPEARANCE	ODOR	BOILING POINT (°F)
Syrupy liquid	Moderate	151° F.
SPECIFIC GRAVITY @73 ±2° F	VAPOR PRESSURE (mm Hg.)	PERCENT VOLATILE BY VOLUME(%)
Typical 0.920 ±0.040	143 mm Hg. based on THF	Approx: 85 - 90%
VAPOR DENSITY (Air =1)	EVAPORATION RATE (BUAC = 1)	SOLUBILITY IN WATER
2.49	5 - 8	Solvent portion completely soluble in water; Resin portion separates out.

VOC STATEMENT: VOC as manufactured: 790 Grams/Liter. Maximum VOC emission per SCAQMD Rule 1168, Test Method 316A: More than 60% of acts as a reactive diluent and remains in the pipe joint.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	FLAMMABLE LIMITS	LEL	UEL
1° F T.C.C.	(PERCENT BY VOLUME)	1.1	11.8

FIRE EXTINGUISHING MEDIA

Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog

SPECIAL FIRE FIGHTING PROCEDURES

Evacuate enclosed areas, stay upwind. Close or confined quarters require self-contained breathing apparatus, positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from source of ignition and to disperse vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Extremely flammable, low flashpoint. THF is an OSHA Class 1B flammable liquid. Vapors are heavier than air and may travel to source of ignition.

SENSITIVITY TO: IMPACT - No STATIC DISCHARGE - Yes

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY:

 x Inhalation x Skin Contact Eye Contact Ingestion

EFFECT OF OVEREXPOSURE

ACUTE: Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.

Skin Contact: Skin irritant. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.

Skin Absorption: Prolonged or widespread exposure may result in the absorption of harmful amounts of material.

Eye Contact: Liquid and vapors are eye irritants. Can cause severe eye injury.

Ingestion: Moderately toxic. May cause nausea, vomiting, diarrhea. May cause mental sluggishness.

CHRONIC:

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None Currently Known.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: If overcome by vapors, remove to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Call doctor.

Eye Contact: Flush eyes with plenty of water for 15 minutes and call a doctor.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with plenty of soap and water for at least 15 minutes. If irritation develops, get medical attention.

Ingestion: Give 1 or 2 glasses of water or milk. **Do not induce vomiting.** Call physician or poison control center immediately.

SECTION VI - REACTIVITY

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

Keep away from heat, sparks, open flame and other sources of ignition.

INCOMPATIBILITY

(MATERIALS TO AVOID) Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

HAZARDOUS DECOMPOSITION PRODUCTS

When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride and unidentified organic compounds in black smoke.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

Keep away from heat, sparks, open flame and other sources of ignition.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all ignition sources. Avoid breathing of vapors. Contain liquid with sand or earth. Place leaking container in well-ventilated area, blanket with foam if ignition hazard exists. Contain spill.

WASTE DISPOSAL METHOD

Follow local, State and Federal regulations. Consult disposal expert. Can be disposed of by incineration. Excessive quantities should not be permitted to enter drains. Empty containers should be air dried before disposing. Hazardous Waste Code: 214

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Atmospheric levels should be maintained below established exposure limits contained in Section II. If airborne concentrations exceed those limits, use of a NIOSH-approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single short-term exposure. For emergency and other conditions where short term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.

VENTILATION

Use only with adequate ventilation. Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits set forth in Section II. Use only explosion proof ventilation equipment.

PROTECTIVE GLOVES

PVA coated, Rubber or Neoprene

EYE PROTECTION

Splashproof chemical goggles

OTHER PROTECTIVE EQUIPMENT AND HYGENIC PRACTICES

Impervious apron and a source of running water to flush or wash the eyes and skin in case of contact.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in the shade between 40°F - 110°F. Keep away from heat, sparks, open flame and other sources of ignition. Avoid prolonged breathing of vapor. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Train employees on all special handling procedures before they work with this product.

OTHER PRECAUTIONS

Follow all precautionary information given on container label, product bulletins and our solvent cementing literature. All handling equipment should be electrically grounded.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. It is the responsibility of the user to investigate and understand the ramifications of using this product, and to comply with all use and disposal laws and procedures.